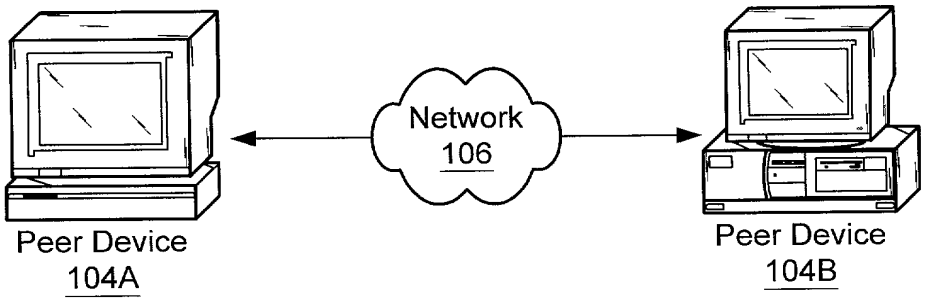

FIG. 1A

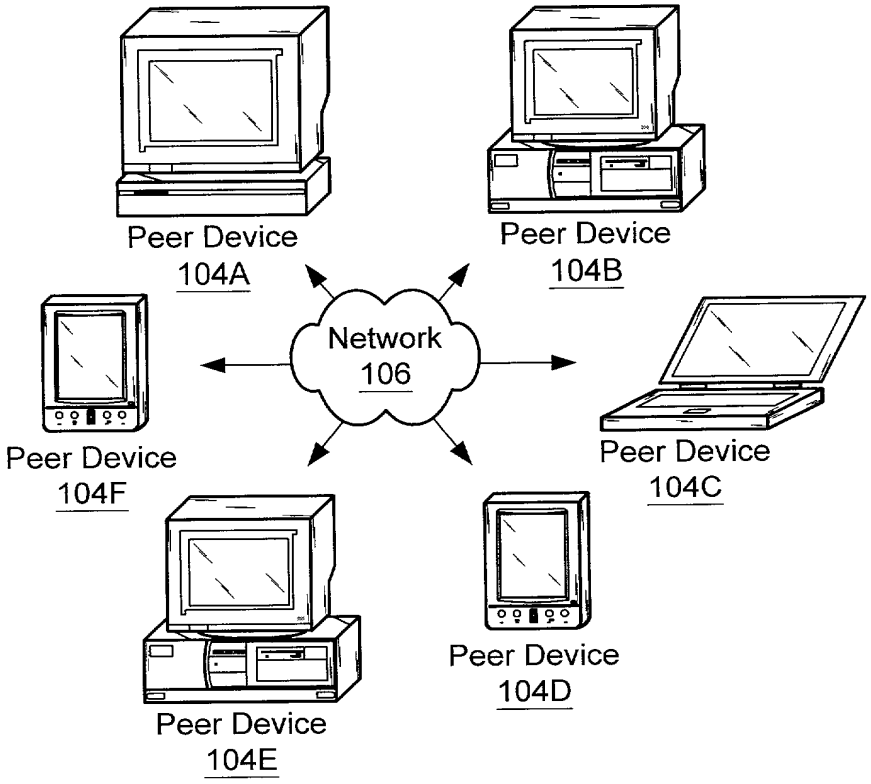

FIG. 1B

EP 2 565 450 A2

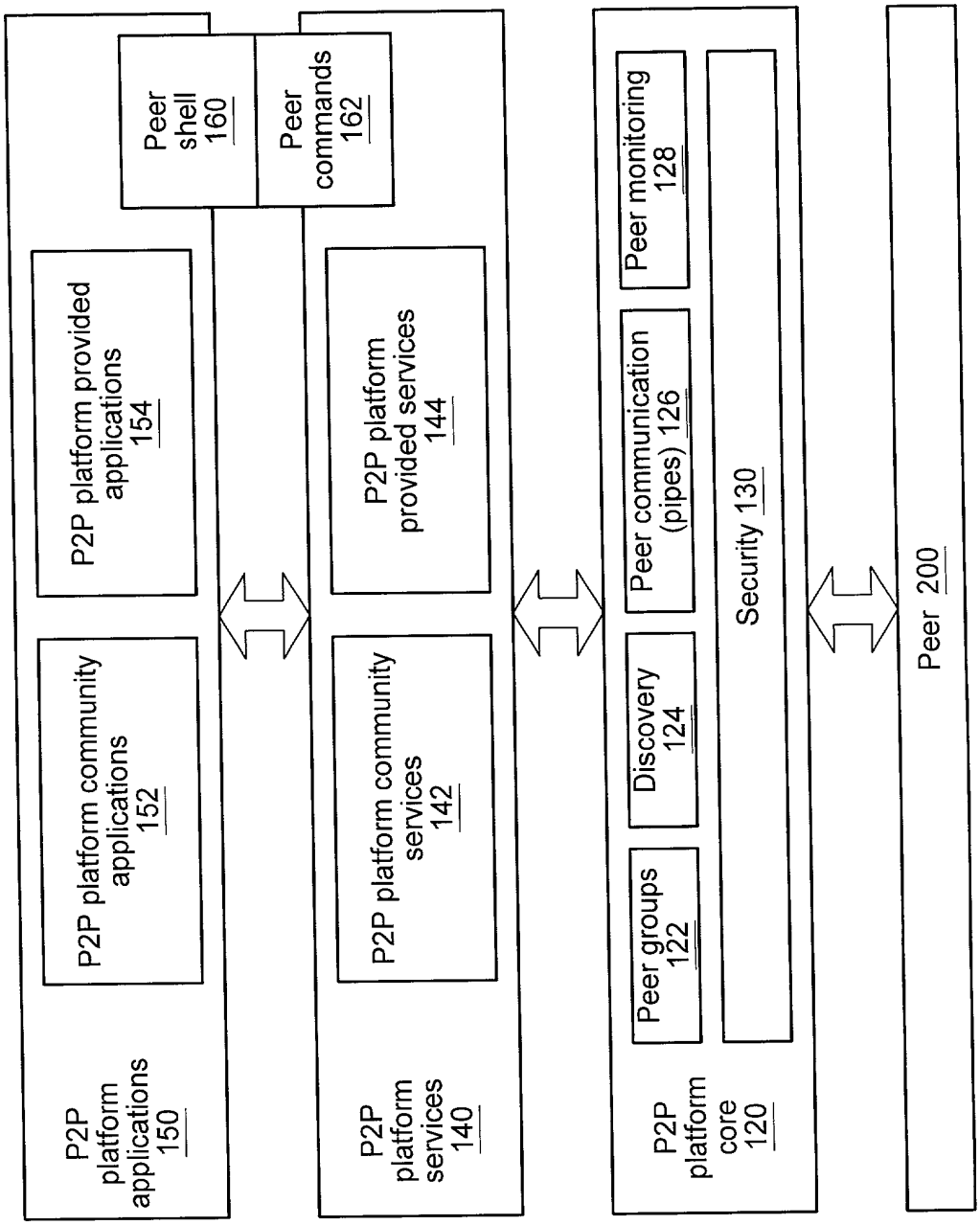
P2P platform applications 150
P2P platform community applications 152
P2P platform provided applications 154
P2P platform services 140
P2P platform community services 142
P2P platform provided services 144
Peer shell 160
Peer commands 162
P2P platform core 120
Peer groups 122
Discovery 124
Peer communication (pipes) 126
Peer monitoring 128
Security 130
Peer 200

FIG. 2

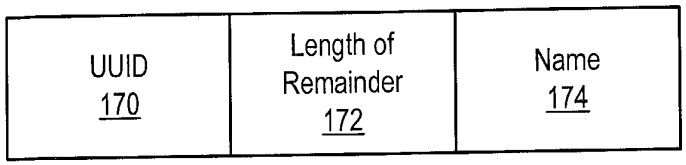
UUID
170
Length of
Remainder
172
Name
174

FIG. 3

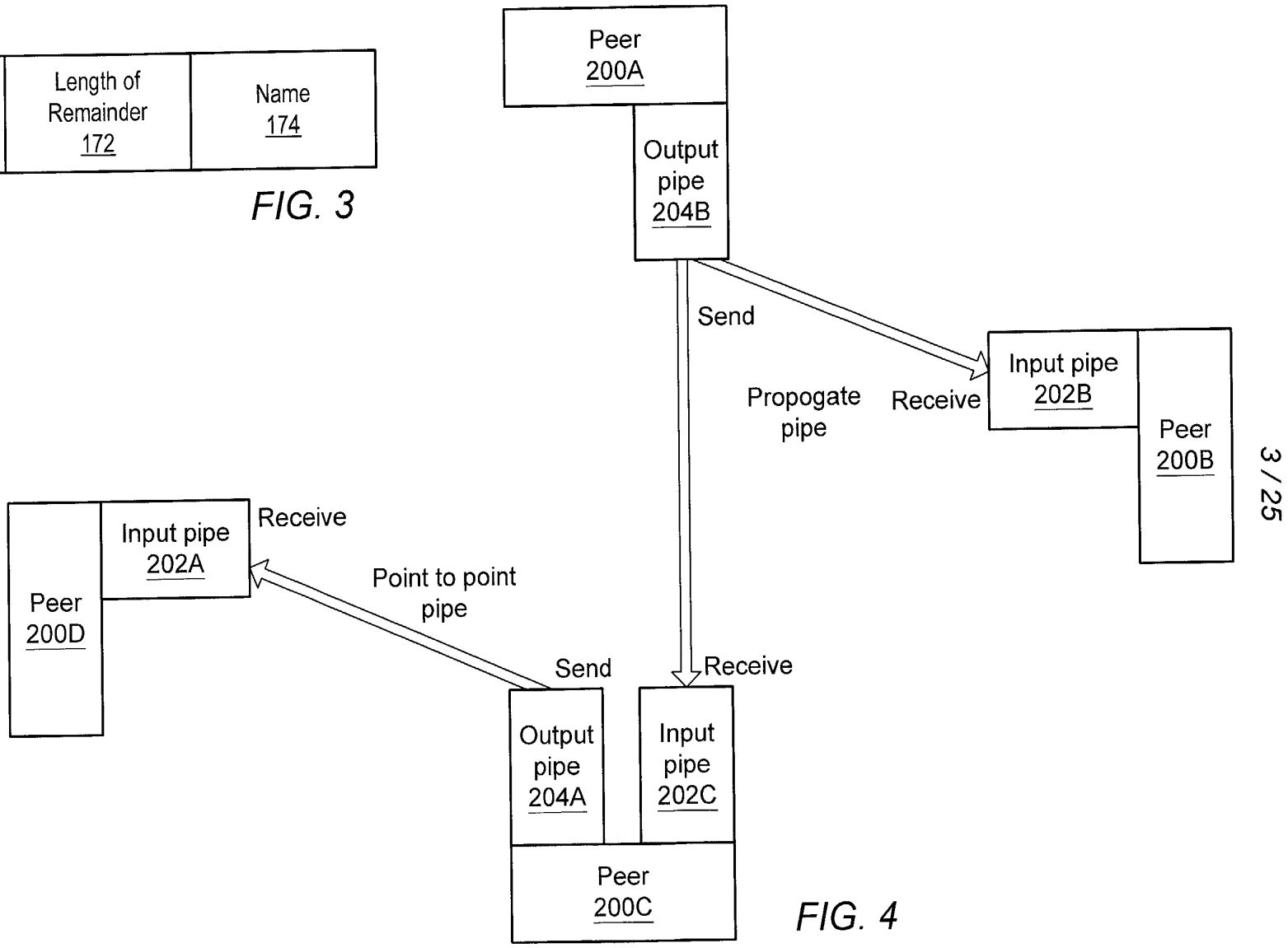
Peer
200A
Output
pipe
204B
Send
Propogate
pipe
Receive
Input pipe
202B
Peer
200B
Receive
Input pipe
202A
Peer
200D
Point to point
pipe
Send
Receive
Output
pipe
204A
Input
pipe
202C
Peer
200C

FIG. 4

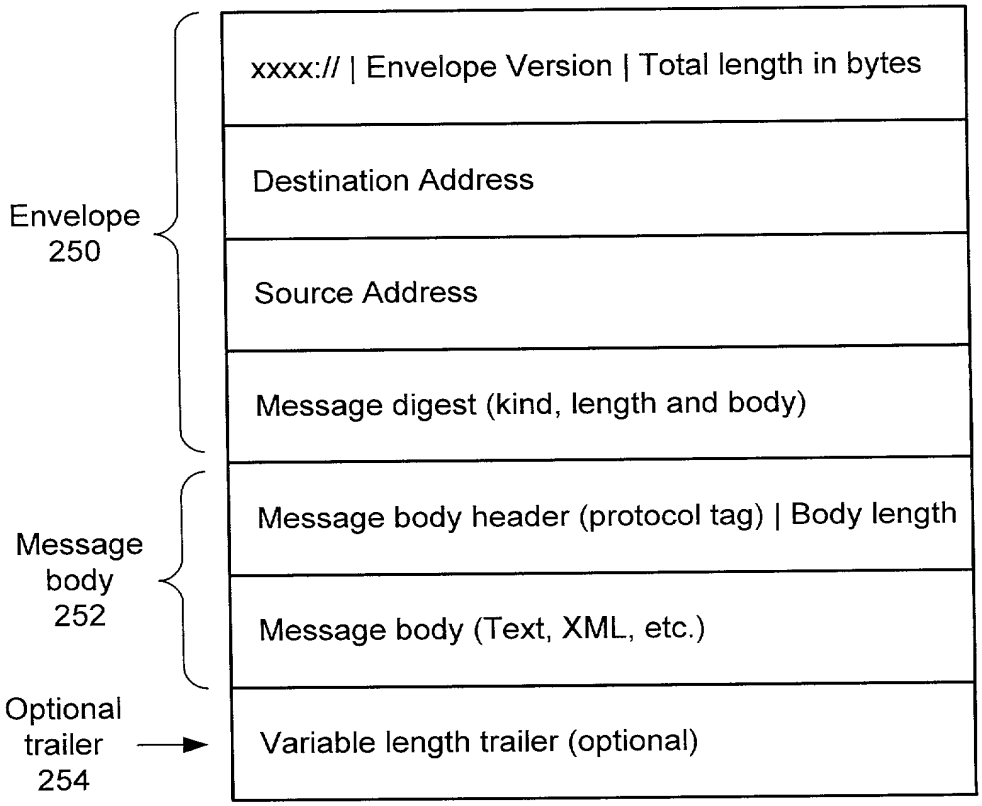

FIG. 5

EP 2 575 045 A2

Element Name (A String)	Element Value Type
Name	<String>
Keywords	<String>
Properties	<Properties>
Service	<Service Advertisement[]> (an array)
Endpoint	<Endpoint Advertisement[]> (an array)

FIG. 6

Element Name (A String)	Element Value Type
Name	<String>
Keywords	<String>
GroupID	<ID>
PeerID	<ID>
Service	<Service Advertisement[]> (an array)

FIG. 7

Element Name (A String)	Element Value Type
Name	<String>
Identifier	<ID>
Type	<String>

FIG. 8

Element Name (A String)	Element Value Type
Name	<String>
Keywords	<String>
Identifier	<ID>
Version	<String>
Pipe	<PipeAdvertisement>
Params	<String>
URI	<String>
Provider	<String>
Access Method	<Method[]> (an array)

FIG. 9

EP 0 954 794 B1 2002

Element Name (A String)	Element Value Type
Mime-Type (Optional)	<String>
Size	Long
Encoding	<String>
ContentID	<ID>
RefID (Optional)	<ID>
Document	<Document>

FIG. 10

Element Name (A String)	Element Value Type
Name	<String>
Keywords	<String>
Address	<String>
Transport	<Transport Advertisement>

FIG. 11

EP 0 954 802 B1

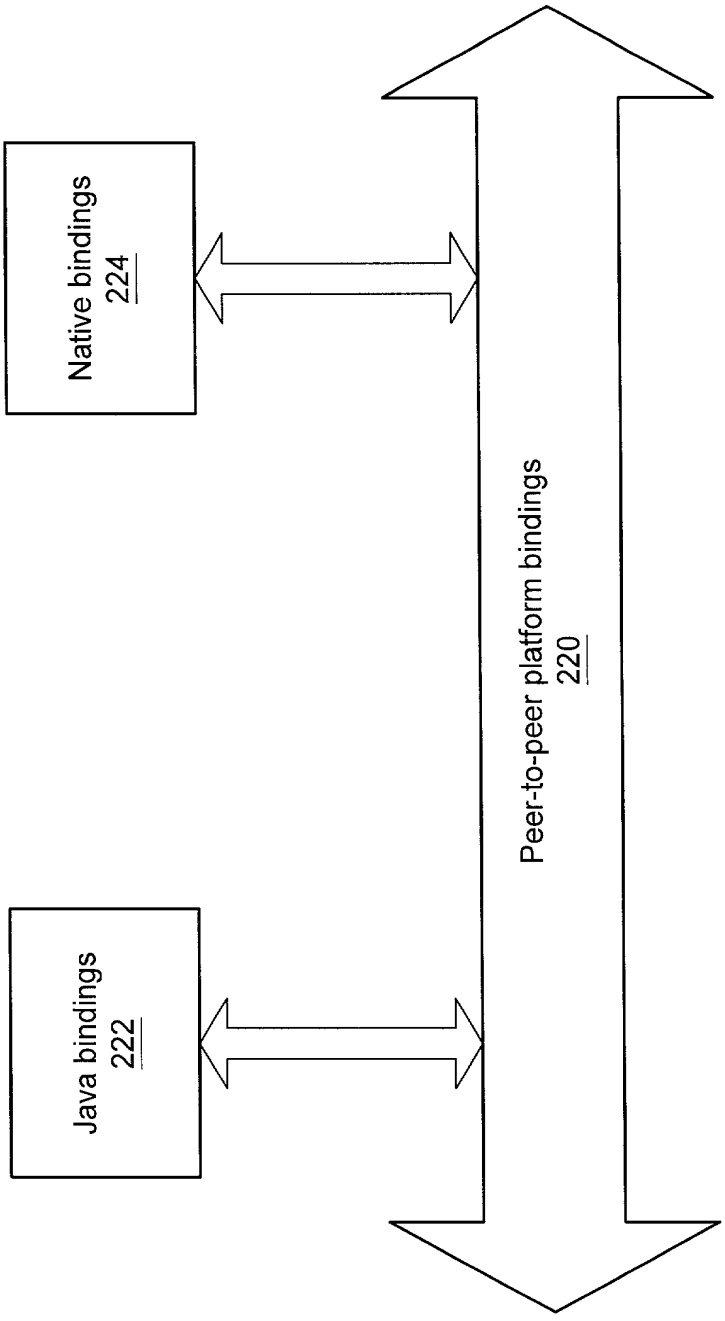
Native bindings
224
Java bindings
222
Peer-to-peer platform bindings
220

FIG. 12

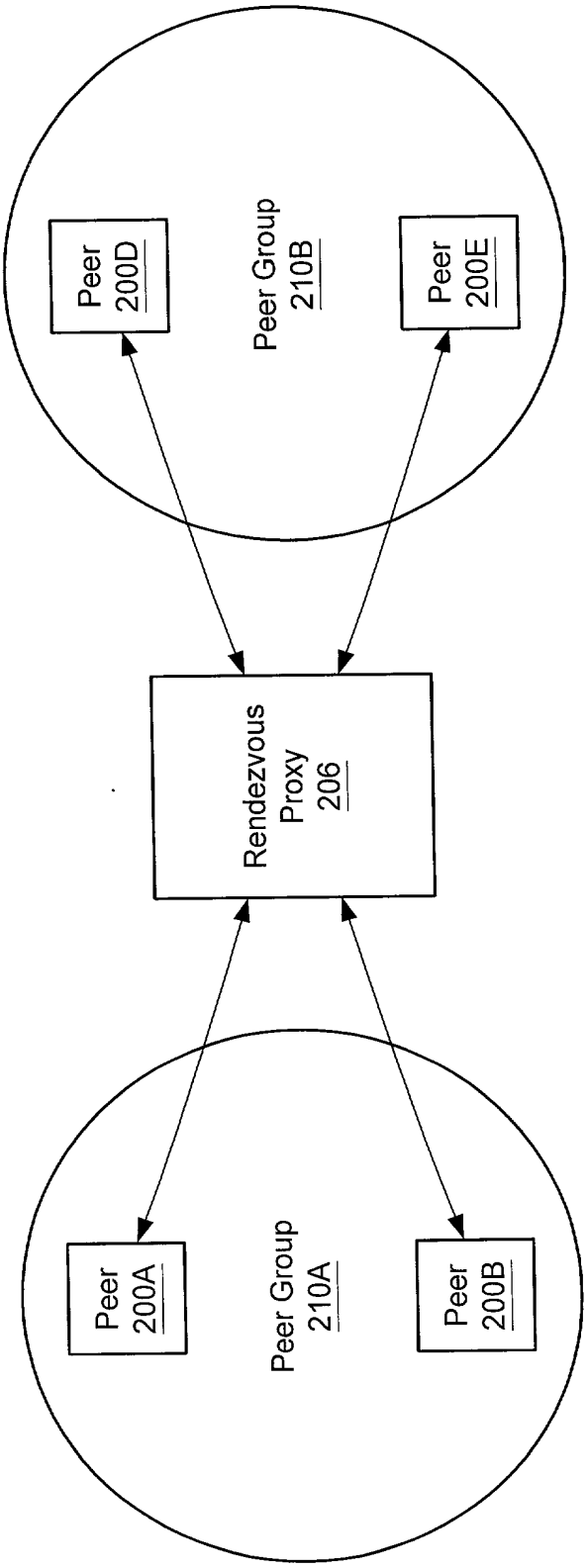

FIG. 13

20220405648 "04220405648"

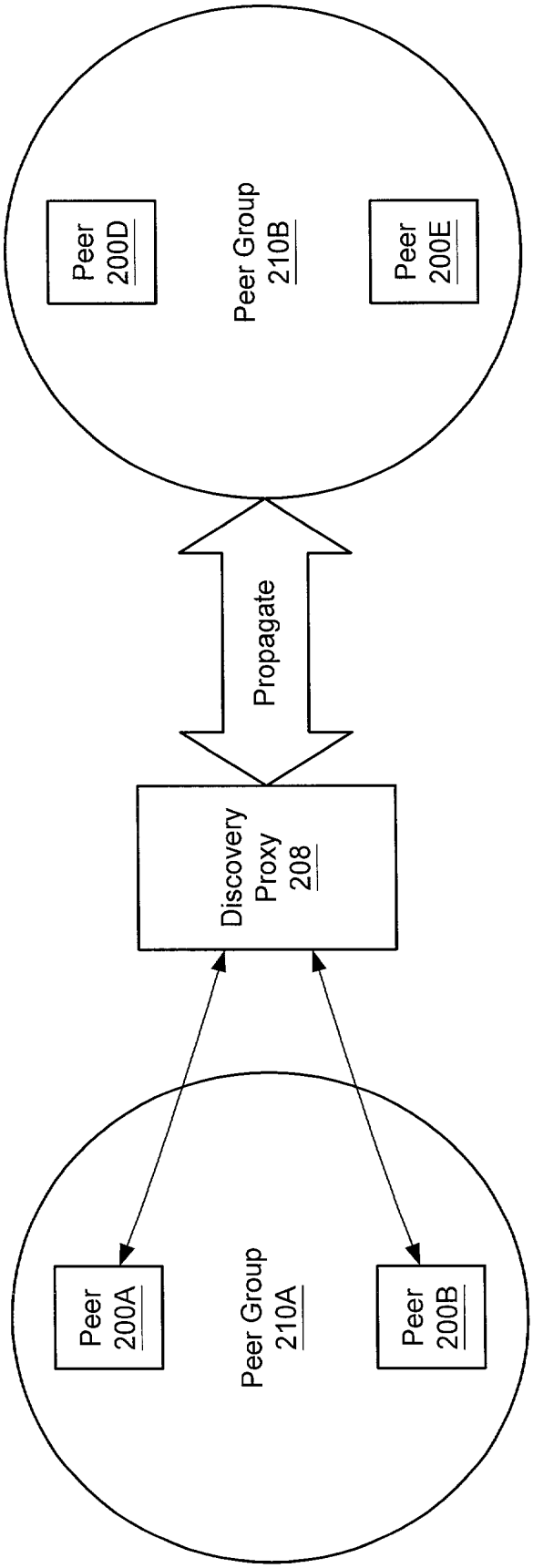
Peer
200D
Peer Group
210B
Peer
200E
Propagate
Discovery
Proxy
208
Peer
200A
Peer Group
210A
Peer
200B

FIG. 14

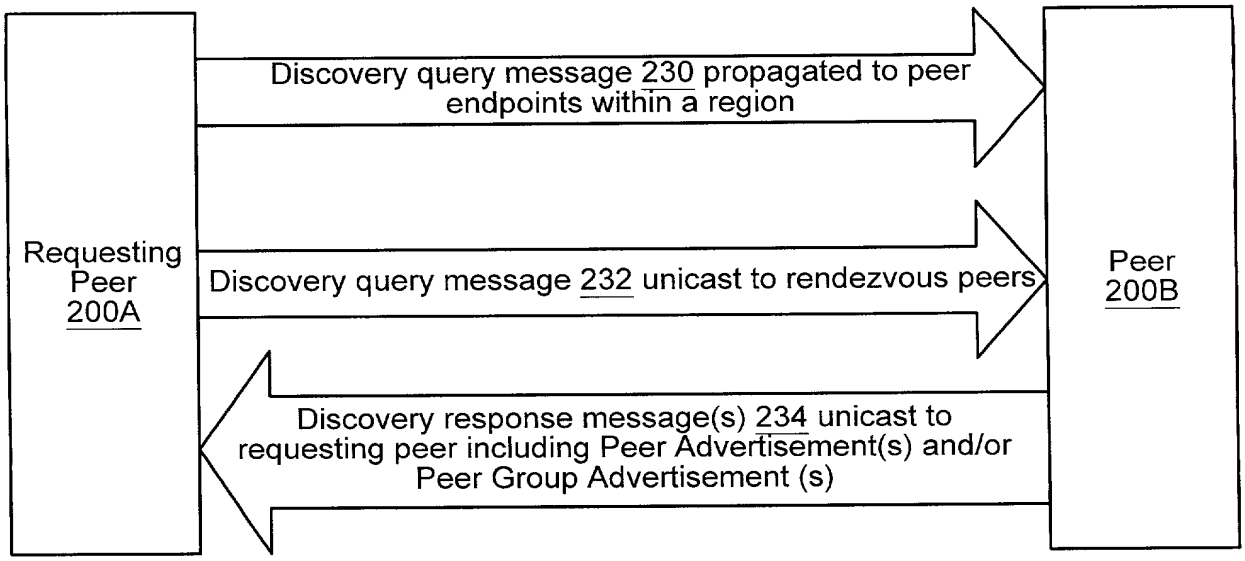

FIG. 15

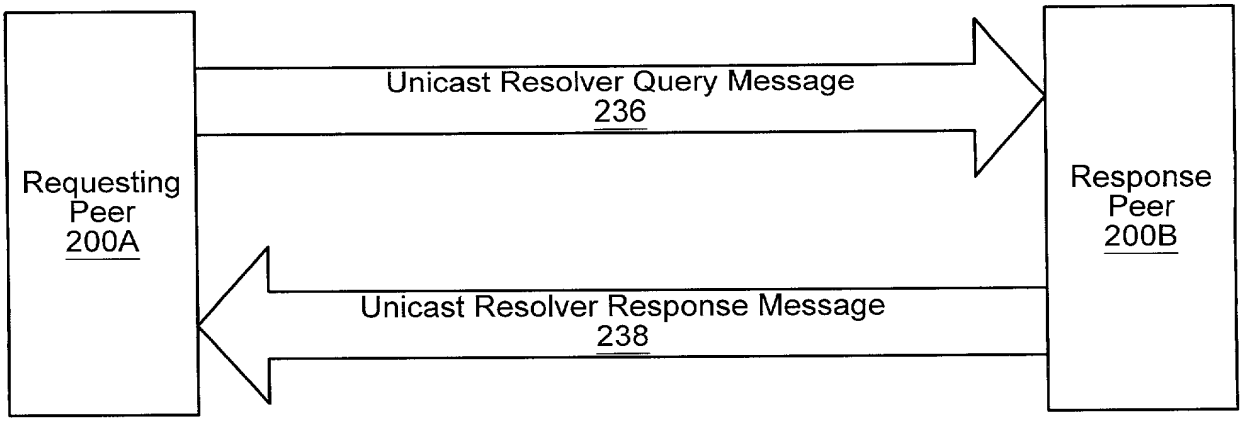

FIG. 16

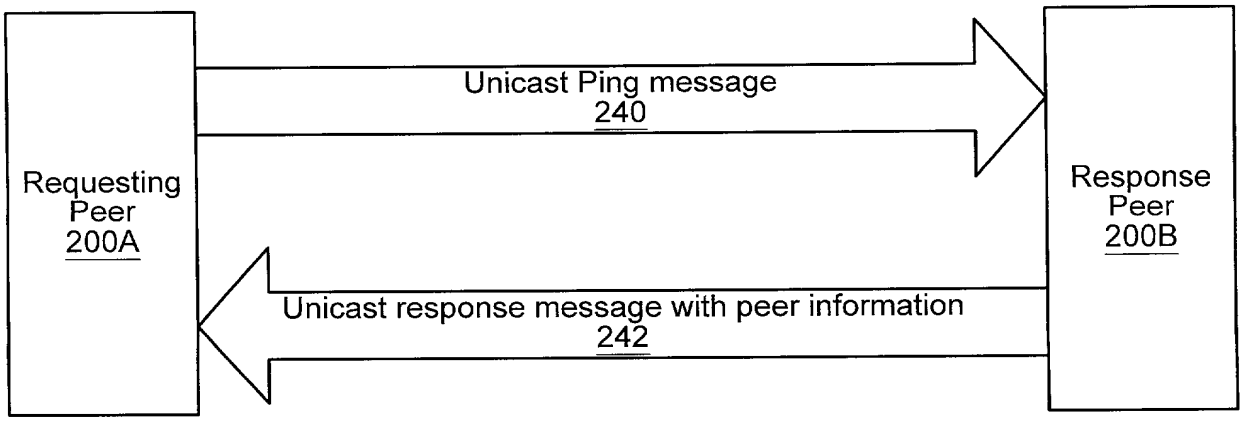

FIG. 17

20050149-US-NP

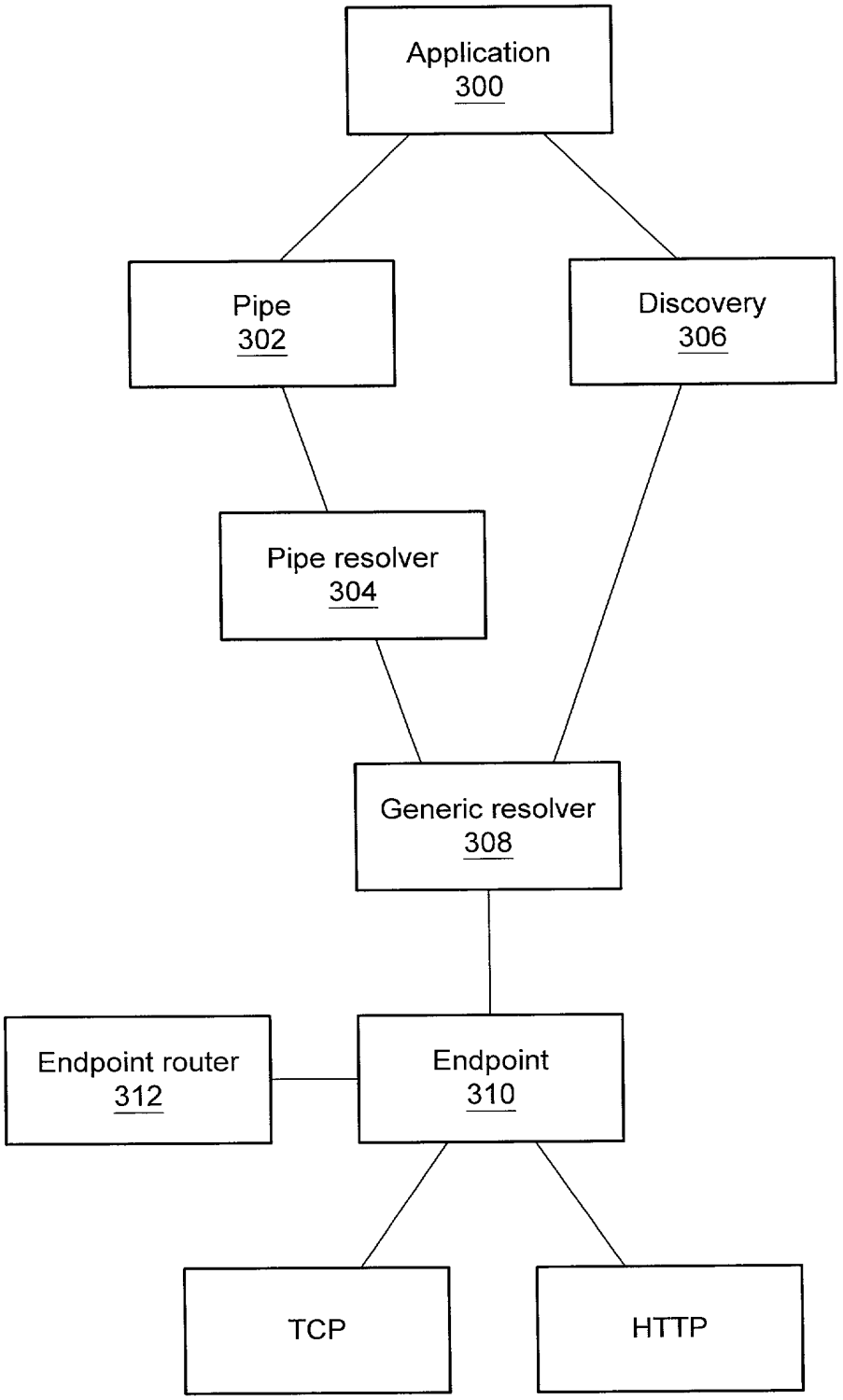

FIG. 18

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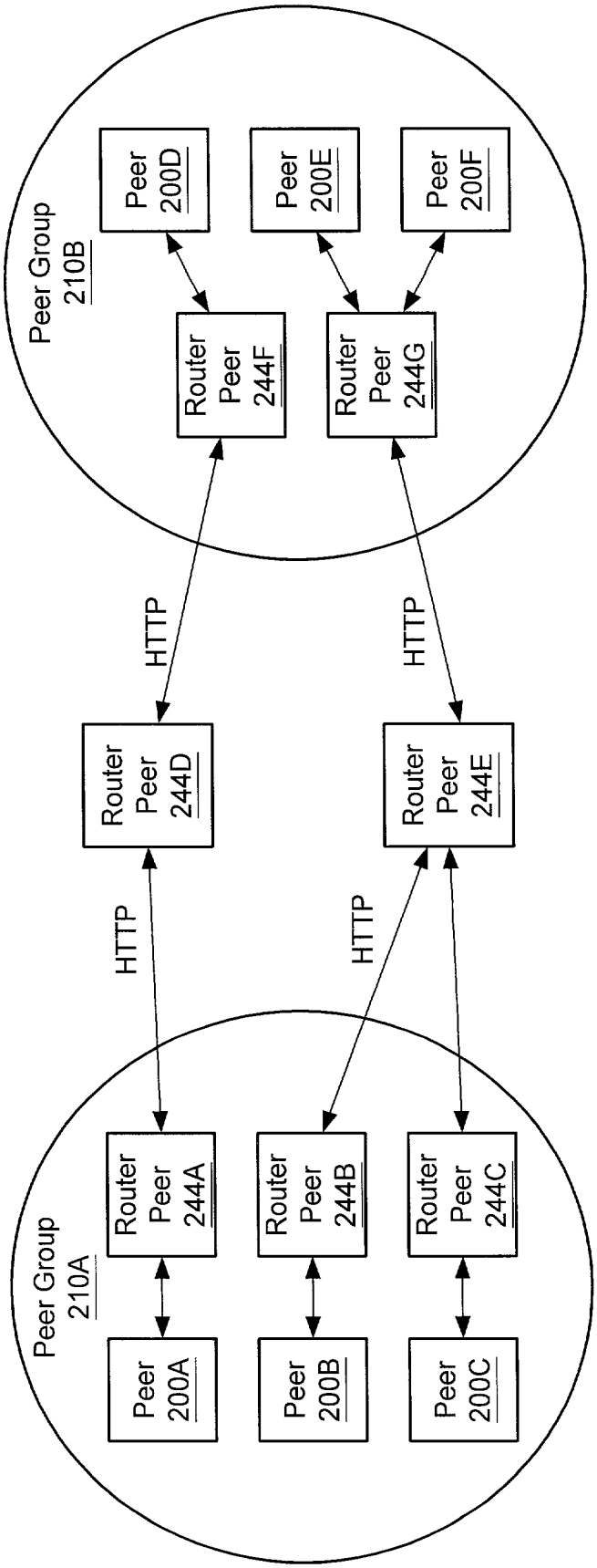
Peer Group
210A
Peer
200A
Peer
200B
Peer
200C
Router
Peer
244A
Router
Peer
244B
Router
Peer
244C
HTTP
HTTP
HTTP
Router
Peer
244D
Router
Peer
244E
Peer Group
210B
Peer
200D
Peer
200E
Peer
200F
Router
Peer
244F
Router
Peer
244G

FIG. 19

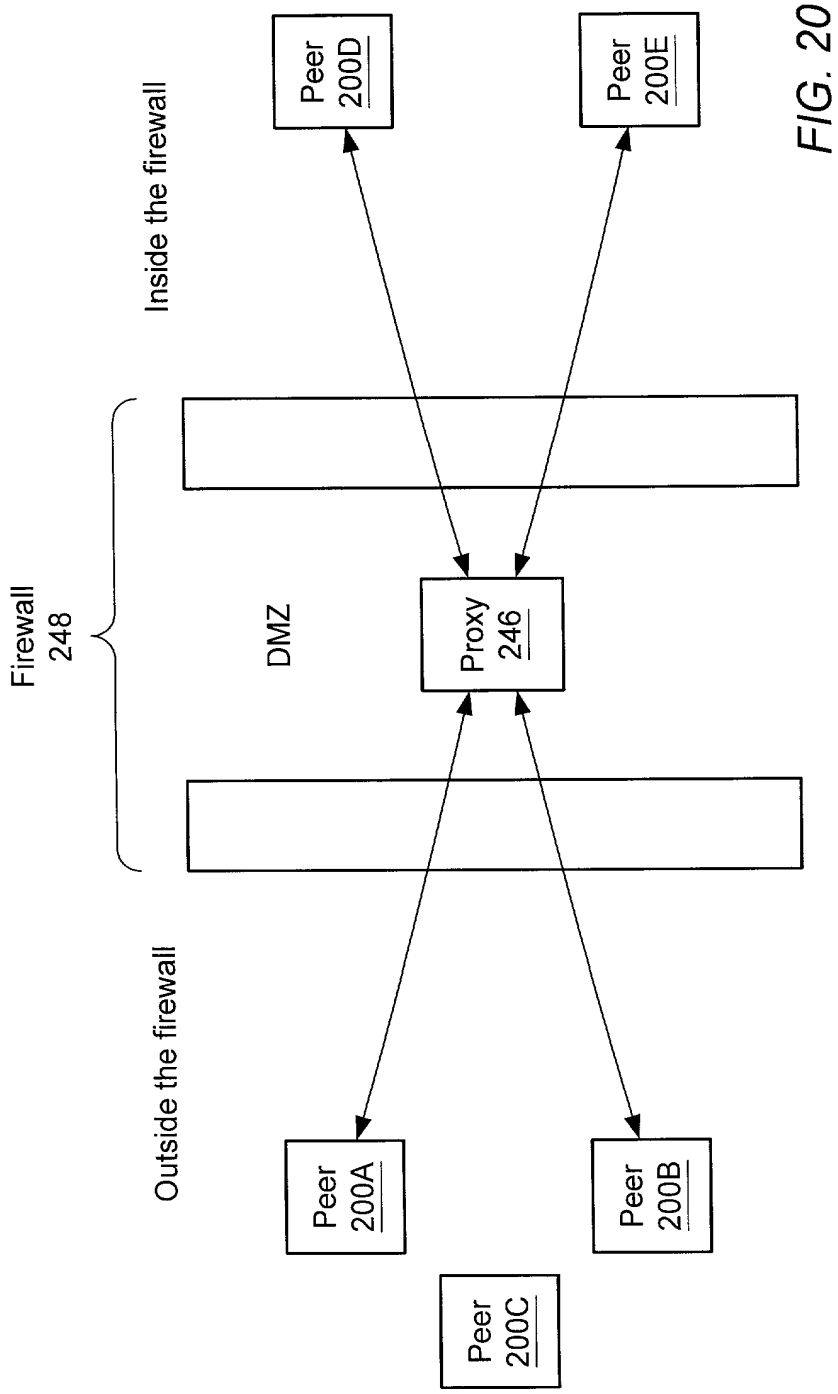
Peer 200D
Peer 200E
Inside the firewall
Firewall 248
DMZ
Proxy 246
Outside the firewall
Peer 200A
Peer 200B
Peer 200C

FIG. 20

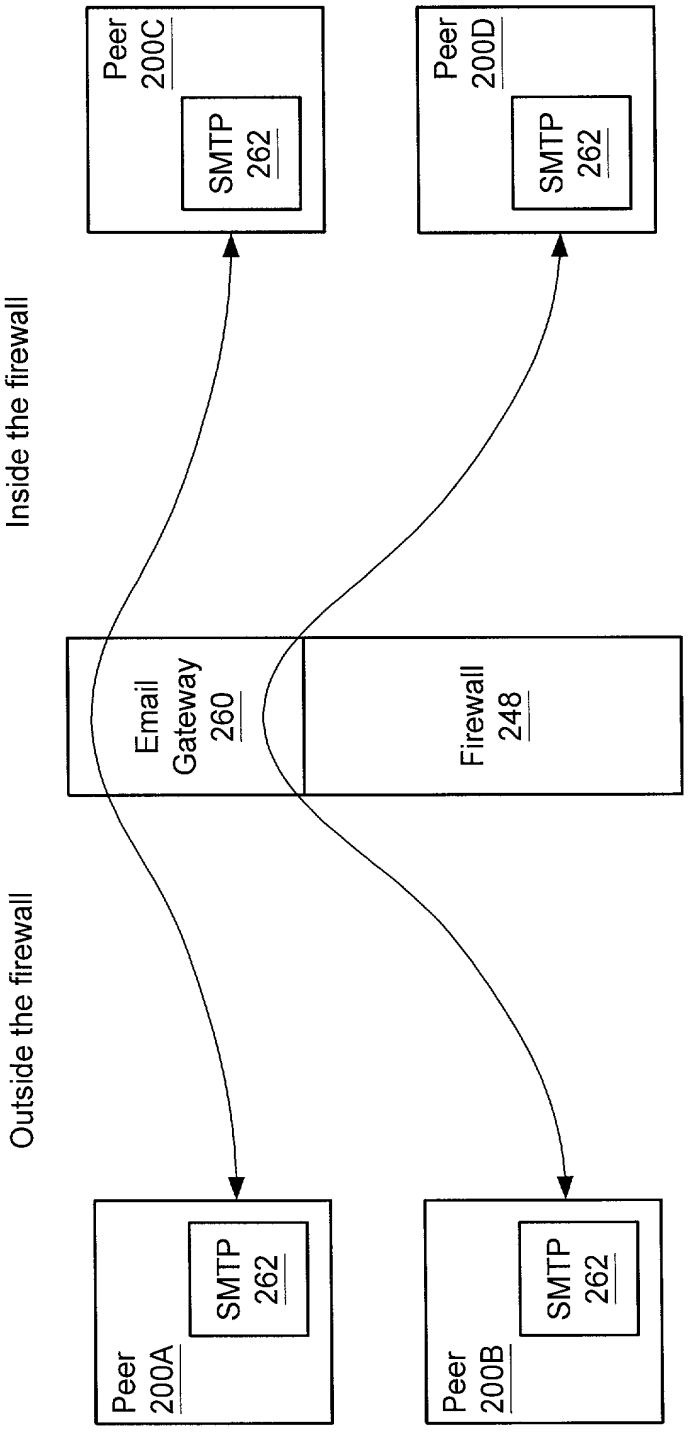
Peer 200C
SMTP 262
Peer 200D
SMTP 262
Inside the firewall
Email Gateway 260
Firewall 248
Outside the firewall
Peer 200A
SMTP 262
Peer 200B
SMTP 262

FIG. 21

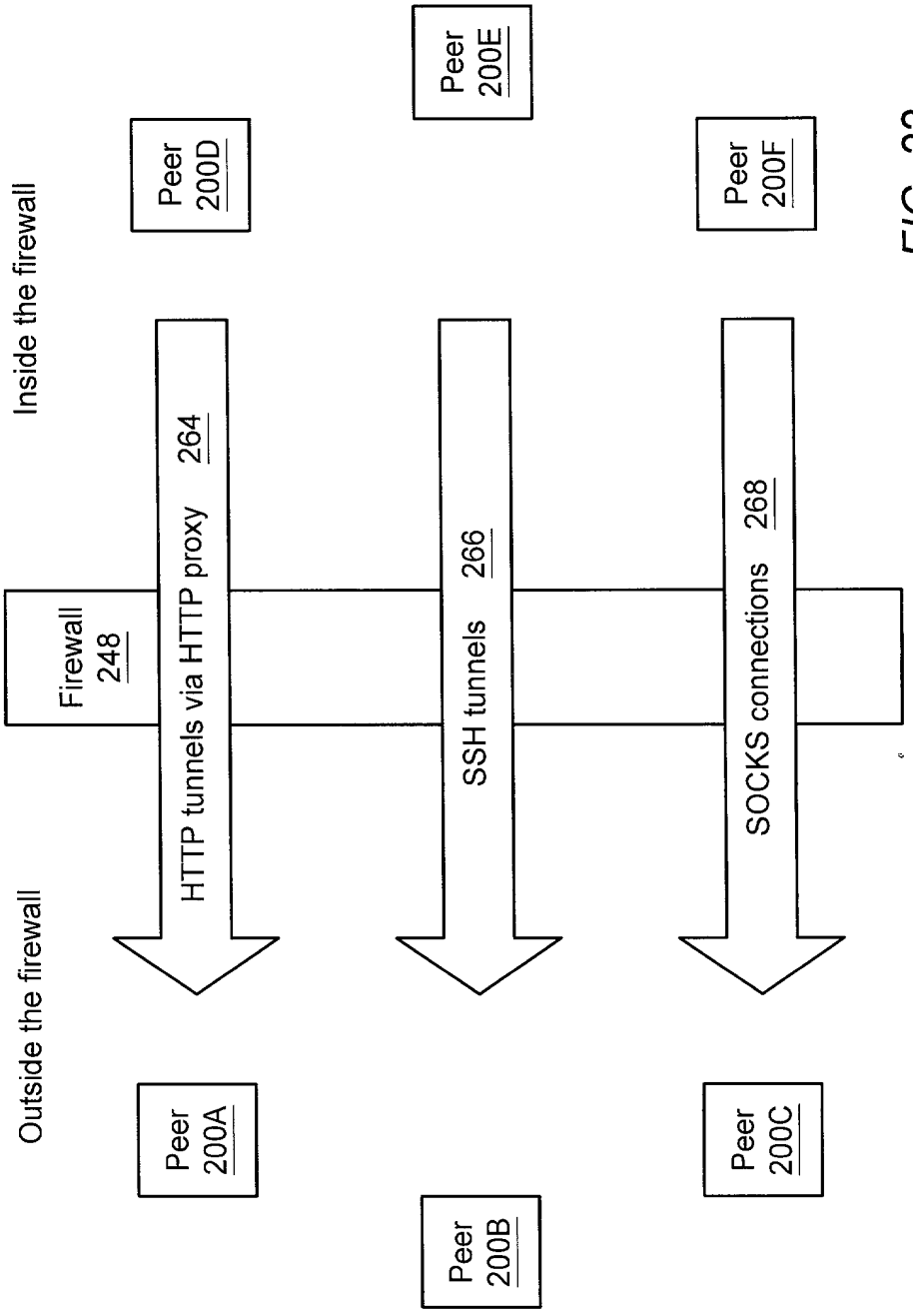
Inside the firewall
Outside the firewall
Firewall 248
HTTP tunnels via HTTP proxy 264
SSH tunnels 266
SOCKS connections 268
Peer 200A
Peer 200B
Peer 200C
Peer 200D
Peer 200E
Peer 200F

FIG. 22

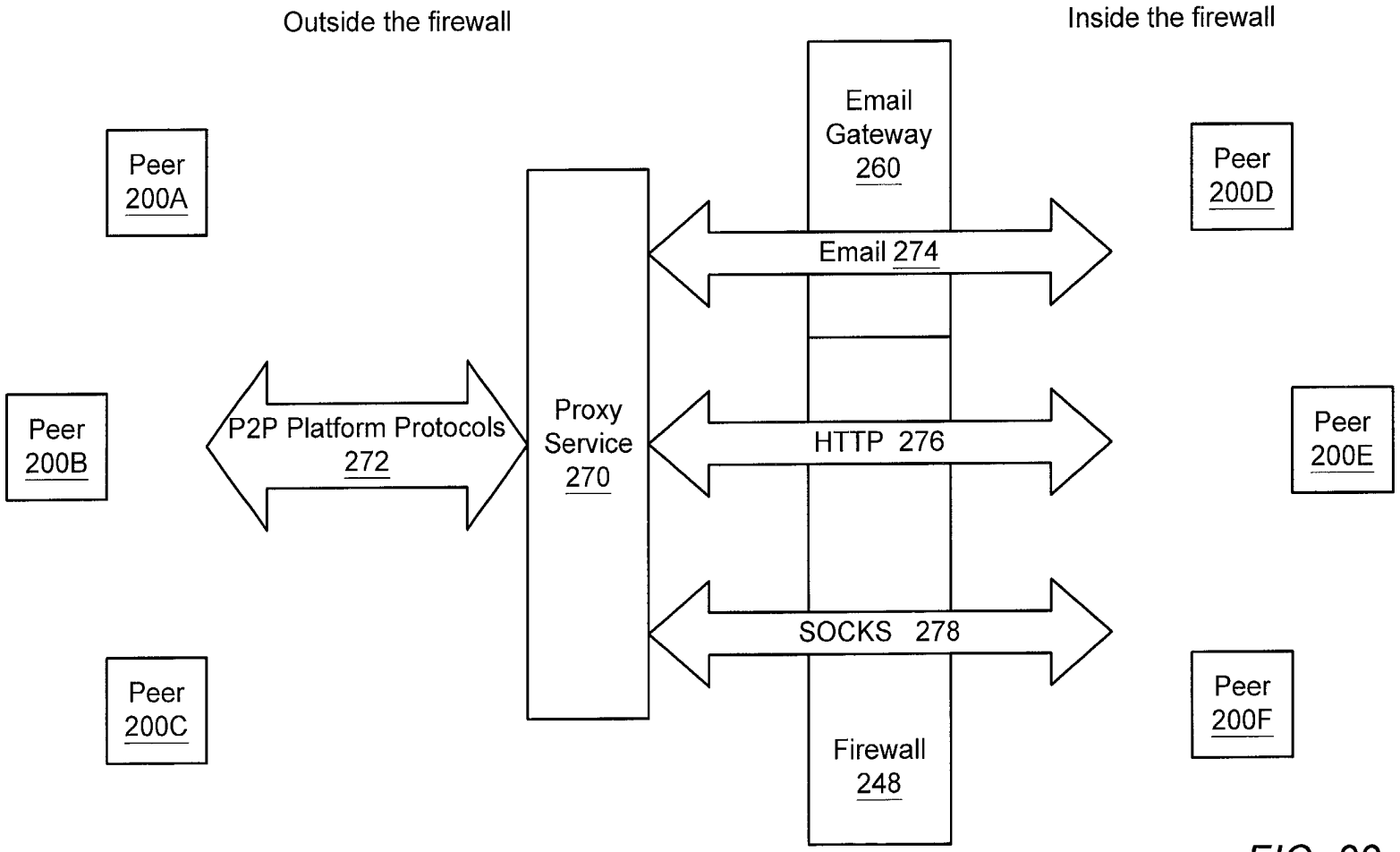
Outside the firewall
Inside the firewall
Email Gateway 260
Peer 200A
Peer 200D
Email 274
Peer 200B
P2P Platform Protocols 272
Proxy Service 270
HTTP 276
Peer 200E
SOCKS 278
Peer 200C
Peer 200F
Firewall 248

FIG. 23

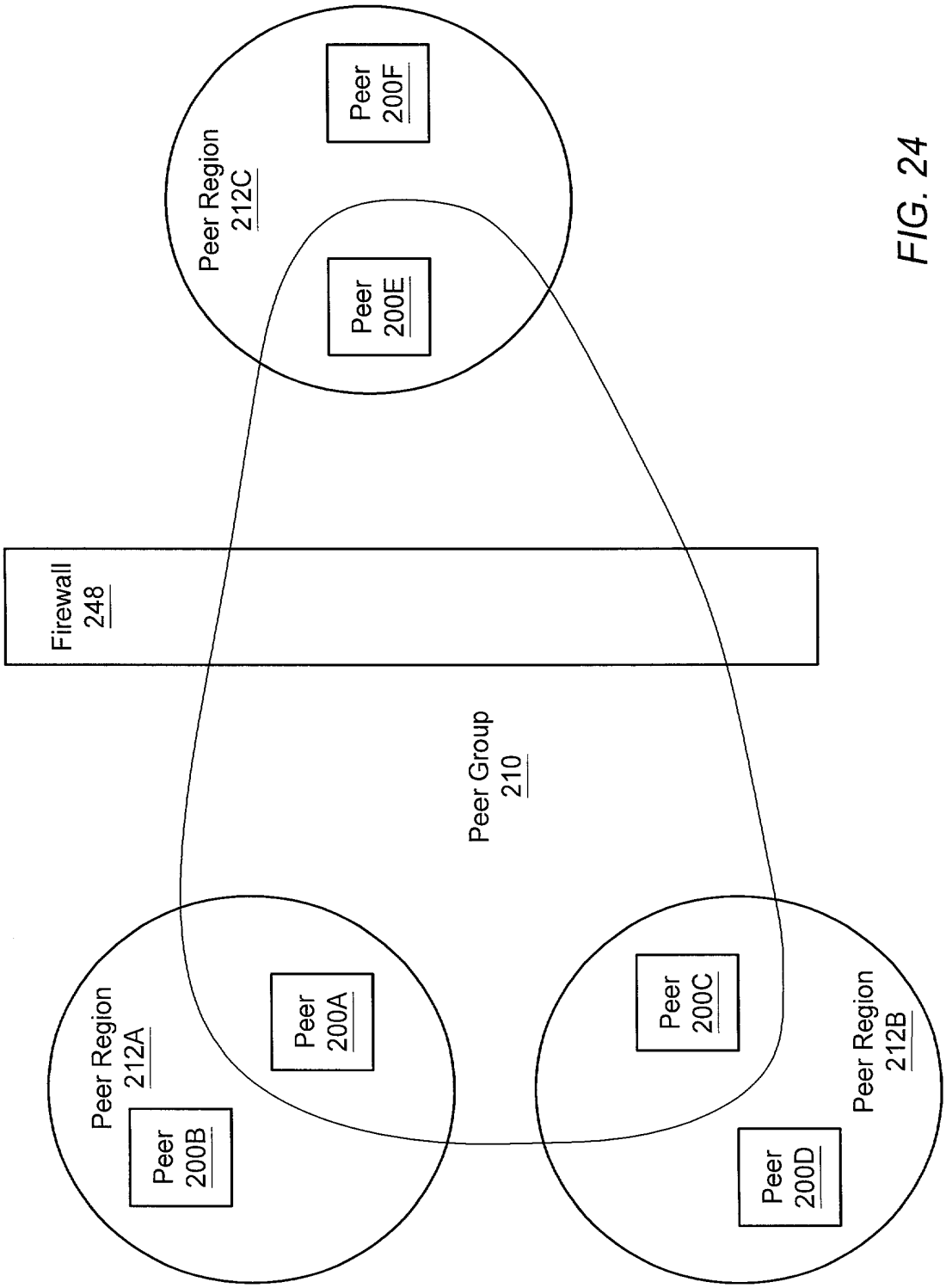
Peer Region
212C
Peer
200F
Peer
200E
Firewall
248
Peer Group
210
Peer Region
212A
Peer
200A
Peer
200B
Peer
200C
Peer Region
212B
Peer
200D

FIG. 24

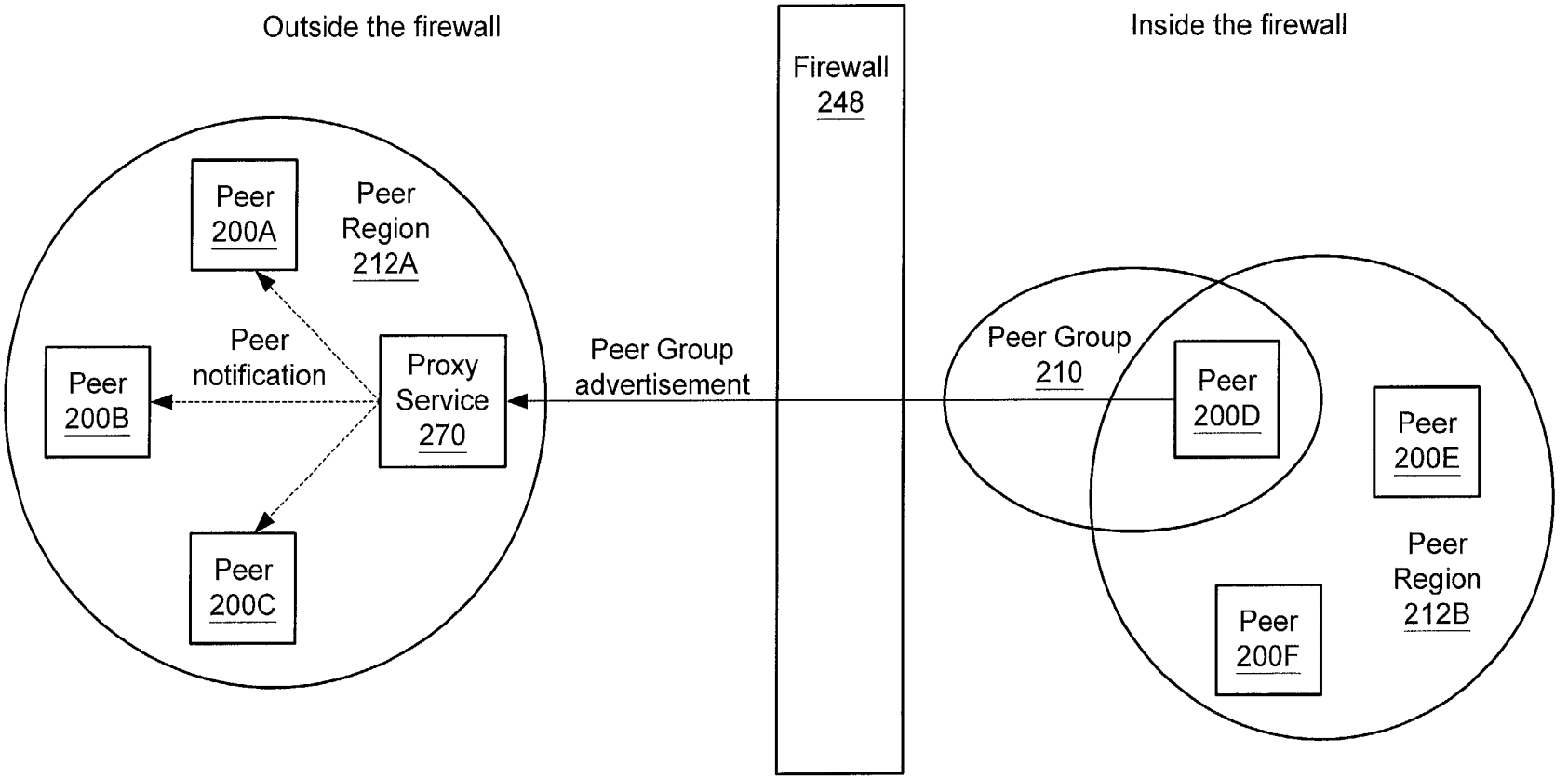
Outside the firewall
Firewall
248
Inside the firewall
Peer
200A
Peer
Region
212A
Peer
notification
Peer
200B
Proxy
Service
270
Peer Group
advertisement
Peer
200C
Peer Group
210
Peer
200D
Peer
200E
Peer
Region
212B
Peer
200F

FIG. 25

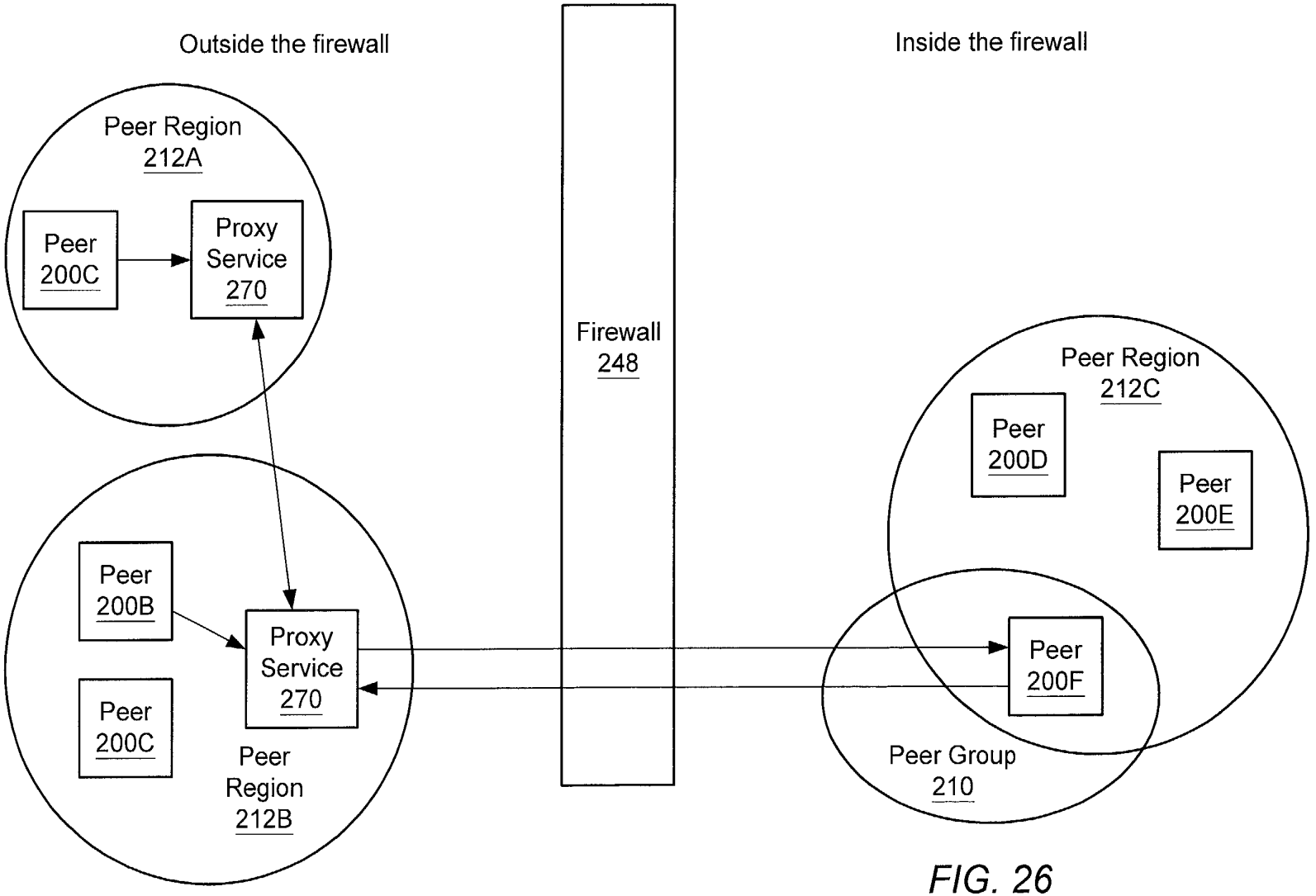
Outside the firewall
Inside the firewall
Peer Region
212A
Peer
200C
Proxy
Service
270
Firewall
248
Peer Region
212C
Peer
200D
Peer
200E
Peer
200B
Proxy
Service
270
Peer
200C
Peer
Region
212B
Peer
200F
Peer Group
210

FIG. 26

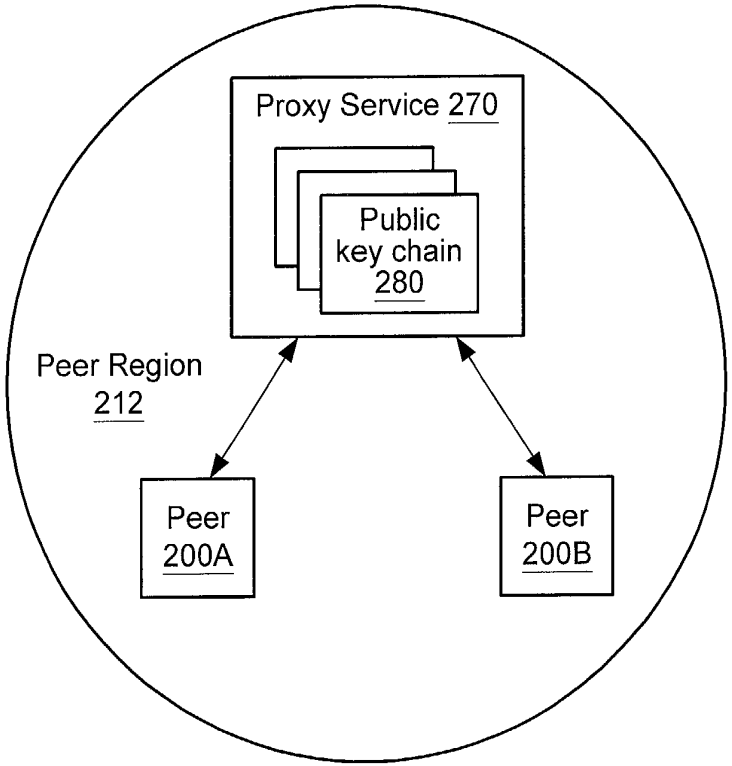

FIG. 27A

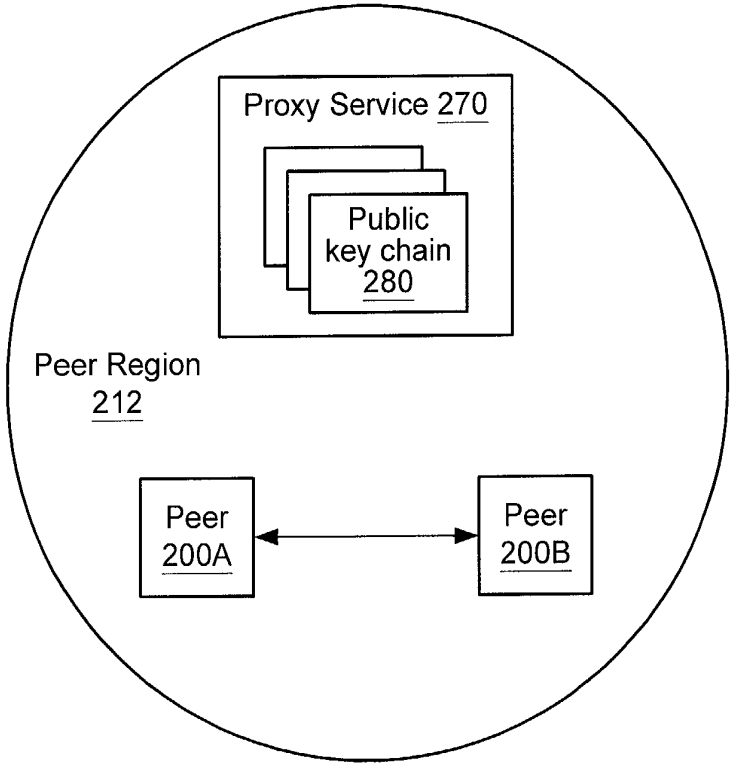

FIG. 27B

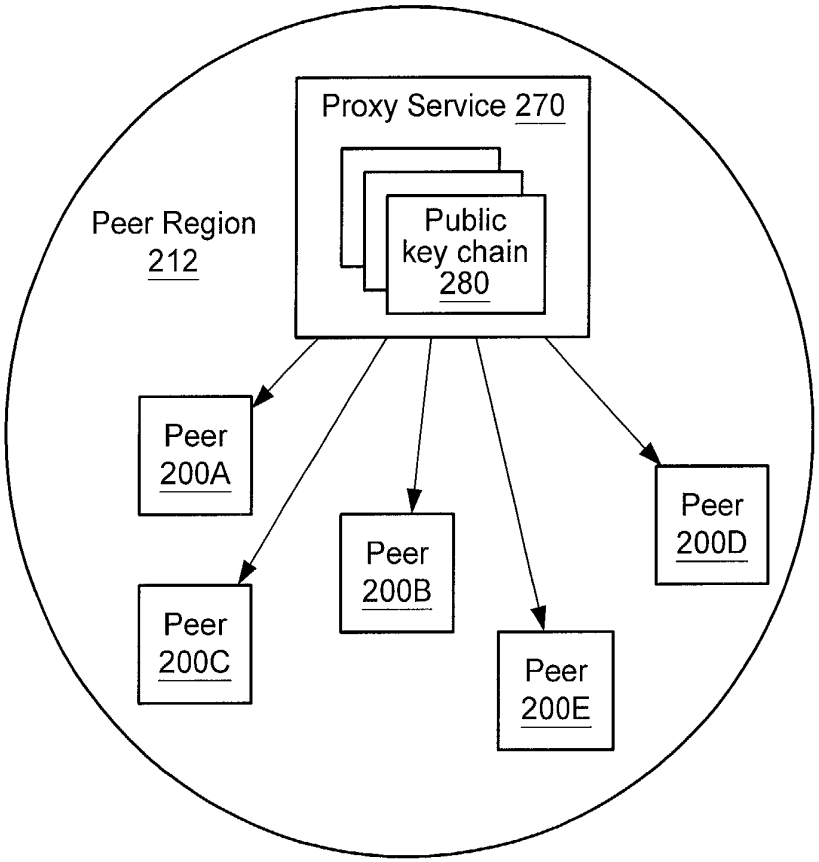

FIG. 28A

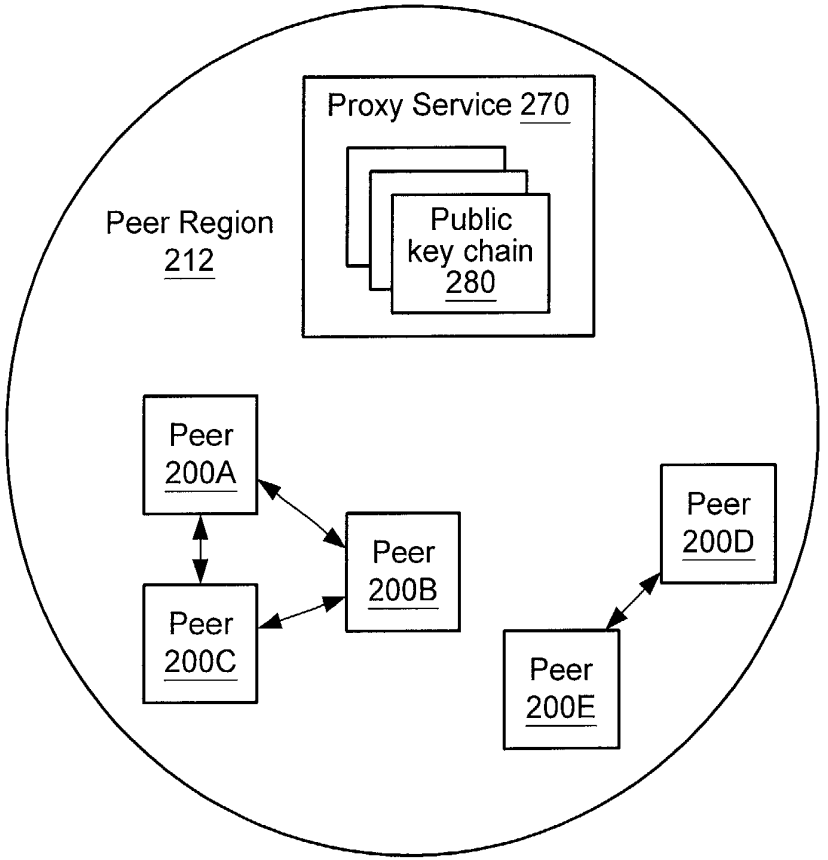

FIG. 28B

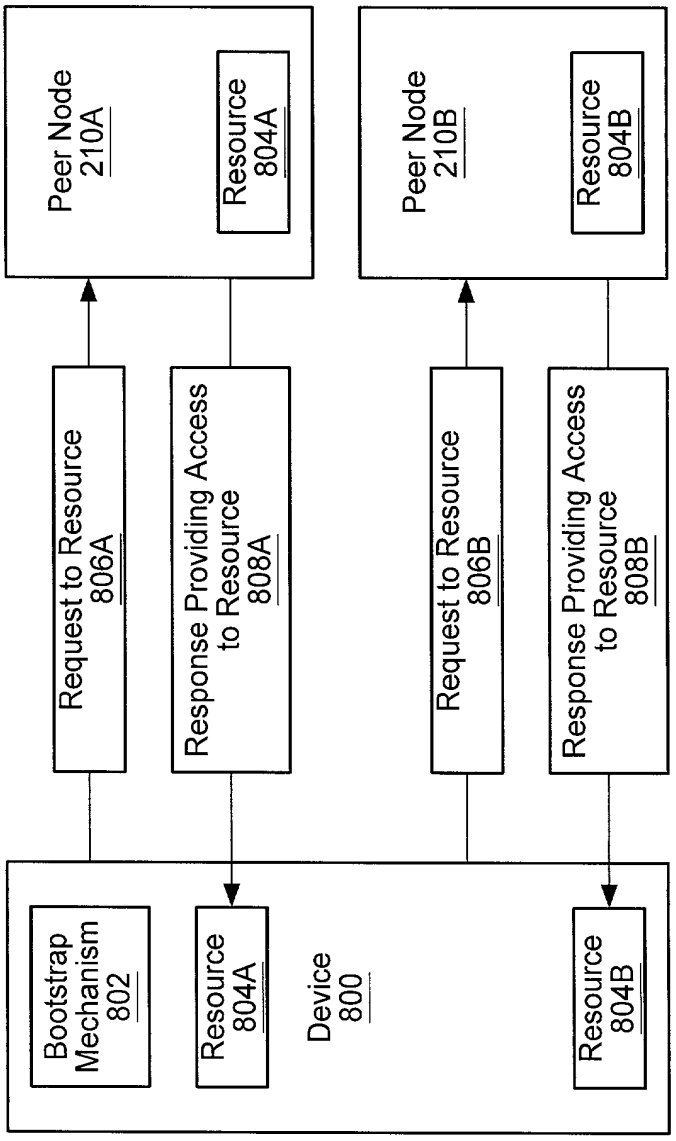
Peer Node
210A
Resource
804A
Peer Node
210B
Resource
804B
Request to Resource
806A
Response Providing Access
to Resource
808A
Request to Resource
806B
Response Providing Access
to Resource
808B
Bootstrap
Mechanism
802
Resource
804A
Device
800
Resource
804B

FIG. 29

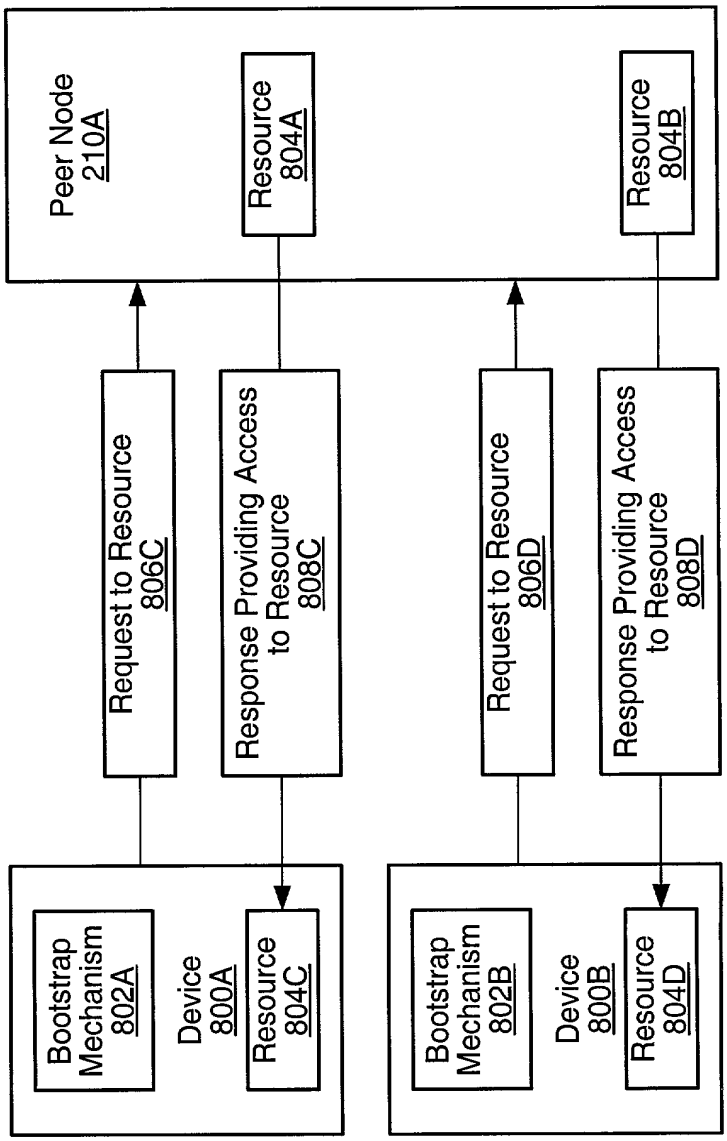
Peer Node
210A
Resource
804A
Resource
804B
Request to Resource
806C
Response Providing Access
to Resource
808C
Request to Resource
806D
Response Providing Access
to Resource
808D
Bootstrap
Mechanism
802A
Device
800A
Resource
804C
Bootstrap
Mechanism
802B
Device
800B
Resource
804D

FIG. 30

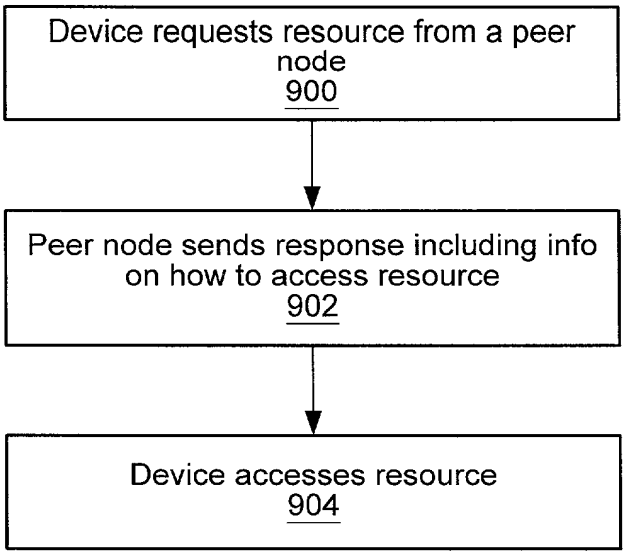

FIG. 31

US 2005/0246404 A1 Nov. 3, 2005